

Weekly report (2013.5.20~5.26)

Done

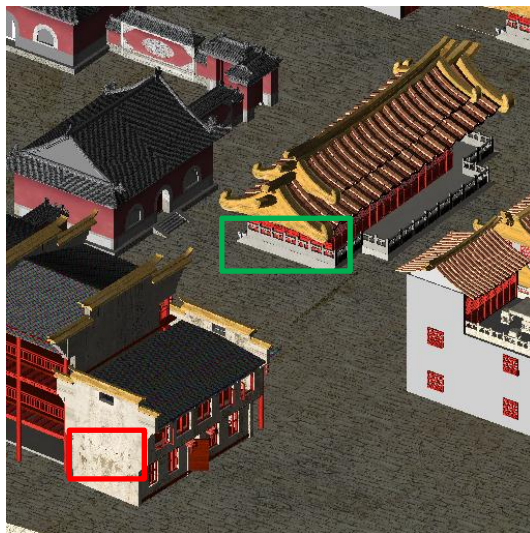
- 1) Conclude my previous work in Chinese.
- 2) Apply data compression into the cluster implementation. Compress strategy is shown in Figure 1, z is kept cause it's needed when changing view pot.

Figure 1 compression scheme

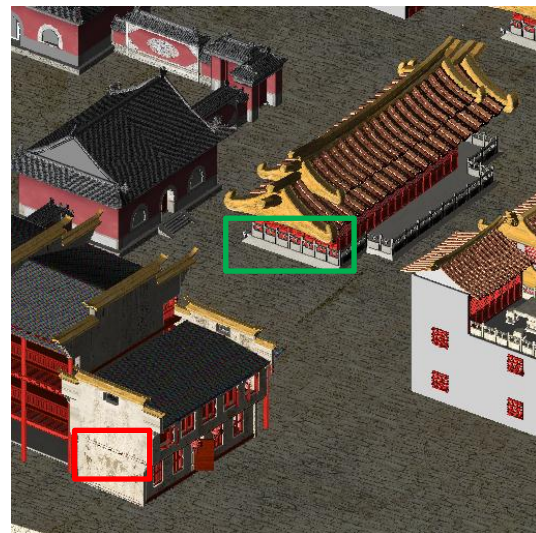
old structure	improving strategy
normal: float * 3	7bit latitude + 8bit longitude
uv: float * 2	reduce to[0.5, 1], for each float, only keep high16bits Mantissa
z: float	unchanged
object number: uint32	64bit - normal - uv

- 3) Implement anti-alias, we can see from the result that some details (marked by green rect.) are restored, but it seems there still exists some bugs (marked by red rect., maybe inherent from previous code).

Figure 2 anti-alias result



a) no anti-alias



b) with anti-alias

To Do

- 1) Continue about my paper, both implement and writing. In implement, I'll try to make the web side more quick and better rendering, and compare my work with previous papers.
- 2) Spend more time in the Meteorology Project.